electric ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	Α	14
	75V	Α	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	A	10
	110V	A	10

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	220V	А	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		2
	<0.4V	٨	7
	≤24V	A	7
	48V	A	6
	75V	A	2
	110V	А	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	A	5
	110V	A	4
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	Α	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			,
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage		/ \	~ <u>~</u>
Dieaning Japauly at vollage	44017	Λ	70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals		••	
		Nim	0.9
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	11111	10111	v



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		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section		2	
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		2	
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	182
Conductor section			9	102
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC				
1 0		230V	А	3
		400V	A	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
1 0		24V	А	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	А	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0,000	
	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
	m	nechanical load	cycles	2000000
Mirror contate accord	ing to IEC/EN 609474-4-1		0,0103	
	ing to it o/tin 003+14-4-1			yes

EMC compatibility	
AC coil operating	

yes

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KONTAKT

Rated AC voltage				V	230
AC operating volta	•				
	of 50/60Hz coil power				
		pick-up		0/11-	75
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	20 55
	of 50/60Hz coil power	ed at 60Hz	IIIdA	/003	55
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out	max	/000	110
			min	%Us	20
			max	%Us	55
AC average coil co	onsumption at 20°C				
5	of 50/60Hz coil power	ed at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil power	ed at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered a	at 60Hz			
			in-rush	VA	30
			holding	VA	4
			holding	VA W	4 0.95
Max cycles freque	ncy		holding	W	0.95
Max cycles freque Mechanical operat	ncy		holding		0.95
Max cycles freque Mechanical operati Operating times	ncy on		holding	W	0.95
Max cycles freque Mechanical operati Operating times	ion Is control		holding	W	0.95
Max cycles freque Mechanical operati Operating times	ncy on		holding	W	0.95
Max cycles freque Mechanical operati Operating times	ion Is control	Closing NO		W cycles/h	0.95 3600
Max cycles freque Mechanical operati Operating times	ion Is control	Closing NO	min	W cycles/h ms	0.95 3600 12
Max cycles freque Mechanical operati Operating times	ion Is control	-		W cycles/h	0.95 3600
Max cycles freque Mechanical operati Operating times	ion Is control	Closing NO Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles freque Mechanical operati Operating times	ion Is control	-	min max min	W cycles/h ms ms ms	0.95 3600 12 21 9
Max cycles freque Mechanical operati Operating times	ion Is control	Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles freque Mechanical operati Operating times	ion Is control	-	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles freque Mechanical operati Operating times	ion Is control	Opening NO	min max min max min	W cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17
Max cycles freque Mechanical operati Operating times	ion Is control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Dissipation at hold Max cycles freque Mechanical operati Operating times Average time for U	ion Is control	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operati Operating times	ion Is control	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operati Operating times	ion Is control	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 18
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles freque Mechanical operati Operating times	ls control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 18
Aax cycles freque Aechanical operati Operating times	ls control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2
Max cycles freque Mechanical operati Dperating times	ls control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2

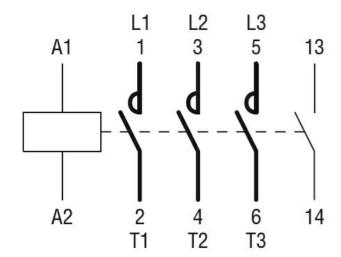


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	Opening	NC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	6.1
Yielded mechanical p	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			_
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
General USE		575/600V	HP	5
General USE	Contactor			
	Contactor	AC current	А	20
Short-circuit protectio	on fuse 600V	AC current	А	20
	High fault			
	High laut	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	7.	J
	Standard fault			<u> </u>
		Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of auxi	liary contacts according to UL	5		A600 - Q600
Ambient conditions	· ·			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ion			2
Pollution degree				3
Dimensions				
44 4.4 (1.73") (0.17") (0.17") (0.17") (0.37") (0.33") (0.33") (0.33") (0.33") (0.33")	57 (2.24") (2.		228") 50	57 24") RF9 89.2 (3.51") 7.6 (0.30")
Wiring diagrams		(1.73")		(0.0.)



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## Certifications and compliance

## Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching